

SUBBOTINA, N.N.

On V.G.Morozova's article "Foraminifer superfamily Globigerinidea
superfan and some of its representatives" in the "Doklady" of
the Academy of Sciences, vol.114, no.5, 1957, pp.1109-1112.
Trudy VNIGRI no.136:614-618 '59. (MIRA 13:4)
(Foraminifera, Fossil) (Morozova, V.G.)

MENNER, V.V., otv.red.; POKROVSKAYA, I.M., red.; RAUZER-CHERNOUSOVA, D.M., red.; SUBBOTINA, N.N., red.; FURSENIKO, A.V., red.; ABKEVICH, P.L., red.izd-va; IVANOVA, A.G., tekhn.red.

[Pre-Quaternary micropaleontology] Dochetvertichnaia mikropaleontologija. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 256 p. (Doklady sovetskikh geologov. Problema 6).
(MIRA 13:11)

1. International Geological Congress. 21st, Copenhagen, 1960.
(Micropaleontology--Congresses)

SUBBOTINA, N.N., nauchnyy red.; DAYEV, G.A., vedushchiy red.; YASHCHUR-ZHINSKAYA, A.B., tekhn. red.

[Transactions of the First Seminar on Microfauna] Trudy pervogo seminara po mikrofaune; sbornik statei pod obshchey red. N.N. Subbotinoi. Leningrad, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 341 p. (MIRA 14:10)

1. Seminar po mikrofaune, 1st.
(Micropaleontology—Congresses)

ORLOV, Yu.A., glavnny red.; MARKOVSKIY, B.P., zam.glavnogo red.; RUFZHENTS'EV, V.Ye., zam.glavnogo red.; SOKOLOV, B.S., zam.glavnogo red.; SARYCHEVA, T.G., otv.red.toma; VAKHRAMYZEV, V.A., red.; GEKKER, R.F., red.; GROMOVA, V.I., red.; DAVITASHVILI, L.Sh., red.; KRYMGOL'TS, G.Ya., red.; LUPPOV, N.P., red.; OBRUCHEV, D.V., red.; OVECHKIN, N.K., red.; POKROVSKAYA, I.M., red.; PCHELINTSEV, V.F., red.; RADCHENKO, G.P., red.; RAUZER-CHERNOUSOVA, D.M., red.; RODENDORF, B.B., red.; ROZHDESTVENSKIY, A.K., red.; ~~SIBOTINA~~, N.N., red.; TAKHTADZHAN, A.L., red.; FLEROV, K.K., red.; FORSENKO, A.V., red.; KHABAKOV, A.V., red.; CHERNYSHEVA, N.Ye., red.; EBERZIN, A.G.; NEVESSKAYA, L.A., red.izd-va; POLENOVA, T.P., tekhn.red.

[Fundamentals of paleontology; manual in fifteen volumes for paleontologists and geologists of the U.S.S.R.] Osnovy paleontologii; spravochnik dlja paleontologov i geologov SSSR v piatnadtsati tomakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nadr. Vol.7. [Polyzoa, Brachiopoda. Supplement: Phoronidea] Mshanki, brakhiopody. Prilozhenie: Foronidy. Otvet.red.T.G. Sarycheva. 1960. 342 p. plates. (MIRA 14:4)

(Polyzoa, Fossil) (Brachiopoda, Fossil)
(Phoronidea, Fossil)

SUBBOTINA, N.N.; PISHVANOVA, L.S.; IVANOVA, L.V.

Stratigraphy of Oligocene and Mocene deposits of Ciscarpathia
based on the study of foraminifers. Trudy VNIGRI no.153:5-155 '60.
(MIRA 13:7)

(Carpathian Mountain region--Paleontology, Stratigraphic)
(Foraminifera, Fossil)

SUBBOTINA, N.N.

Microfauna of Oligocene and Miocene deposits of the Vorotyshche River (Ciscarpathia). Trudy VNIGRI no.153:157-263 '60.

(MIRA 13:7)

(Vorotyshche Valley--Paleontology, Stratigraphic)
(Slonitsa Valley--Paleontology, Stratigraphic)

TOIMACHEV, A.I., prof., red.; ZANINA, I.Ye., red.; MODZALEVSKAYA, Ye.A., red.
OVECHKIN, N.K., red.; RENGARTEN, V.P., red.; SUBBOTINA, N.N., red.;
ABKEVICH, P.L., red. izd-va; IVANOVA, A.G., tekhn. red.

[Fortieth anniversary of Soviet paleontology, 1917-1957. Transactions
of the 4th session of the All-Union Paleontological Society] Sorok let
sovetskoj paleontologii 1917-1957; trudy IV sessii Vsesoyuznogo paleon-
tologicheskogo obshchestva. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po
geologii i okhrane nedr, 1961. 209 p. (MIRA 14:8)

1. Vsesoyuznoye paleontologicheskoye obshchestvo.
(Paleontology)

OBUT, A.M., red.; ZANINA, I.Ye., red.; MODZALEVSKAYA, Ye.A., red.;
OVECHKIN, N.K., red.; REINGARTEN, V.P., red.; STEPANOV, D.L.,
red.; SUBBOTINA, N.N., red.; OBUT, A.M., red.; VLASOVA, L.V.,
red. Izd-va; GOROKHOVA, T.A., red. Izd-va; IVANOVA, A.G.,
tekhn. red.

[Importance of biosphere in geological processes. Problem of
interrelation of paleontology and tectonics; transactions]
Znachenie biosfery v geologicheskikh protsessakh. Voprosy
vzaimosviazi paleontologii i tektoniki; trudy V i VI sessii
Vsесoiuznogo paleontologicheskogo obshchestva. Moskva, Gos-
geotekhizdat, 1962. 247 p. (MIRA 15:9)

1. Vsescouznoye paleontologicheskoye obshchestvo.

(Paleontology) (Geology, Structural)

STEPANOV, D.L., prof., red.; ZANINA, I.Ye., red.; MOHALIEVSKAYA,
Ye.A., red.; CHICHKIN, N.K., red.[deceased]; RENGARTEN,
V.P., red.; SUBOTINA, N.N., red.

[Problems of the characteristics and forms of the development of the organic world; transactions] Voprosy zakonomernosti i form razvitiia organicheskogo mira; trudy. Moscow, Nedra, 1964. 209 p. (NIR 17:9)

1. Vsesoyuznoye paleontologicheskoye obshchestvo. 7th session.

VYALOV, O.S., akademik, otv. red.; BOGDANOVICH, A.K., red.;
BONDAREVA, T.P., red.; FISHVANOVA, L.S., red.;
SUBBOTINA, N.N., red.; MEL'NIK, A.F., red.

[Maikop sediments and their age analogues in the Ukraine
and Central Asia; materials] Maikopskie otlozheniya i ikh
vozrastnye analogi na Ukraine i v Srednei Azii; materialy.
Kiev, Naukova dumka, 1964. 299 p. (MIRA 18:6)

1. Kollokvium po mikrofaune i biostratigrafii maykopskoy
tolshchi i yeye vozrastnykh analogov. 1st, L'vov, 1961.
2. Institut geologii goryuchikh iskopayemykh AN Ukr.SSR
(for Vyalov).

SUBCITINA, N.N.; ALEXSEYCHIK-MITSKEVICH, L.S.; BARANOVSKAYA, O.F.;
BULATOVA, Z.I.; BULENKOVA, S.P.; BURAKOVSKAYA, N.P.; KISEL'MAN,
E.N.; KOZLOVA, G.E.; KUZINA, V.I.; KRIVOBORSKIY, V.V.; USHAKOVA,
M.V.; FREYMAN, Ye.V.

[Cretaceous and Paleogene Foraminifera in the West Siberian
Plain] Foramini: meleykh i paleogenovyykh otlozhenii Zapadno
Sibirskei nizmennosti. Leningrad, Nedra, 1964.455 p. (Leningrad.
Nauchno-issledovatel'skiy geologorazvedochnyi institut. Trudy,
no.234). (MIRA 18:1)

I. Ussoyuznyy neftyanoy nauchno-issledovatel'skiy geologoraz-
vedochyy institut, Leningrad; Sibirskiy nauchno-issledovatel'-
skiy institut geologii, geofiziki i mineral'nogo syr'ya; Novo-
sibirskoye territorial'noye geologicheskoye upravleniye i Tyu-
menskoye territorial'noye geologicheskoye upravleniye.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

MOULINA, I. V.

URBANITA, M. V., "Chairman of National Academic Committee of the Exchange,
An Officer, Director of Lenin Power Engineering Inst. from M. M. Polotov
(Nomination for the Degree of Candidate in Technical Sciences)

Job: YUZHNOE DONSKOYE, JANUARY-DECEMBER 1952

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

SUBBOTINA, N.P.

PATSIKOV, Nikolay Grigor'yevich; MARTYNOVA Ol'ga Isaakovna ;
SUBBOTINA, N.P., redaktor; SKVORTSOV, I.M., tekhnicheskij
redaktor.

[Chemical control at the thermal electric power station; the
water supply system. Khimiches'ii kontrol' na teplovykh elektro-
stantsiiakh; vodnyi rezhim. Moscow, Gos.energ.izd-vo 1955. 336 p.
(Water analysis) (MLRA 9:1)

SUBBOTINA, N. V.

AID P - 1825

Subject : USSR/Engineering

Card 1/2 Pub. 110-a - 2/16

Authors : Prokhorov, F. G., and Subbotina, N. P., Kandidates of Tech. Sci., Moscow

Title : Raising the efficiency of performance of H-Na-cationitic installations

Periodical : Teploenergetika, 3, 11-14, Mr 1955

Abstract : In 1951-52 the authors made a series of laboratory tests of hydrogen zeolite water softeners and developed a method of water softening which they describe. They call this method "hungry" reactivation of H-cationitic filters, and claim that it permits a considerable reduction in the use of sulphuric acid to avoid obtaining acid throw-off waters and acid filtrates, and also to raise the efficiency of the water softening process. Two tables, 6 diagrams

BUBBOTINA, N.P., kand.tekhn.nauk

Use of H cationization with deficient regeneration in networks
for chemical desalting of water. Teploenergetika 8 no.5:71-76
My '61. (MIRA 14:8)

1. Moskovskiy energeticheskiy institut.
(Feed-water purification)

ACC NR: AR6019467

SOURCE CODE: UR/0269/66/000/002/0009/0009

AUTHOR: Subbotina, N. S.

TITLE: Methods of computing ephemerides of the inner planets and the evaluation of their accuracy

SOURCE: Ref. zh. Astronomiya, Abs. 2.51.81

REF SOURCE: Byul. In-ta teor. astron. AN SSSR, v. 10, no.2, 1965, 143-163

TOPIC TAGS: celestial body motion, calculation, sun, mars planet, mercury planet, venus planet, motion equation

ABSTRACT: The accuracy of the computation of the ephemerides of the inner planets is considered, and the accuracy of the existing analytical theories which explain the motion of the Sun, Mars, Mercury, and Venus is evaluated. Newcomb's theory is used to compute the ephemerides of the Sun, Mercury, and Venus. However, in the present paper corrections are introduced into Newcomb's values of orbital elements, derived by H. R. Morgan, G. M. Clemence, and R. L. Duncombe to improve the accuracy of the ephemerides. G. M. Clemence's theory was applied to determine the position of Mars. It is proposed to determine the positions and velocities of the inner planets by the method of numeric integration of equations of motion, since the study of man-made celestial bodies is predicated on the precise values of coordinates and velocities of the inner planets. For the solution of other important applied problems, which do not require high accuracy.

Card 1/2

UDC: 521.5

L2564

S/816/61/000/024/002/003

AUTHORS: Makover, S. G., Gontkovskaya, V. T., Kochina, N. G., Sochilina, A. S.,
and Subbotina, N. S.

TITLE: Investigation of the motion of the second Soviet artificial earth satellite
(Sputnik II or 1957 β).

SOURCE: Akademiya nauk SSSR. Astronomicheskiy sovet. Byulleten' stantsii
opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli. no. 24.
1961, 11-16.

TEXT: This is a presentation of the results of calculations of the orbit elements
of Sputnik II from November 1957 to March 1958, based on visual tracking data, as
used in the short-range prediction of the ephemerides. The method employed is out-
lined in the paper by Makover, S.G., The orbit determination of artificial earth
satellites. Byulleten' stantsii ... no. 24, 1961, 3-11 (Abstract S/816/61/000/024/-
001/003). Computations were performed on the B3CM (BESM) electronic high-
speed computer of the AS USSR Computing Center (A. A. Dorodnitsin, Director);
all preparatory work was done at the State Astronomical Institute imeni Shternberg,
(D. Ya. Martynov, Director). The computation program comprised the following
specific steps: (1) Computation of the instantaneous orbit elements for the time of
given observation; (2) computation of the rectangular satellite coordinates from

Card 1/3

S/816/01/000/C24/002/13

investigation of the motion ...

the formulas of its elliptical motion; (3) computation of the local sidereal time and the rectangular coordinates of the observation station; (4) computation of the spherical equatorial coordinates of the satellite and comparison between calculated and observed coordinates; (5) computation of the coefficients of tentative equations; and (6) computation of the corresponding component coefficients for the normal equations. Computational stages (1) through (6) were performed consecutively for each observation, resulting in the ultimate coefficients of the normal equations. The following operations were then performed: (7) Determination of corrections to the elements obtained from the solution of the system of normal equations, and determination of an improved system of elements; (8) determination of weight factors for each element unknown. An entire cycle of orbit improvement from 100 observations required about one minute of machine time. Upon completion of all computations including stages (1) through (8), the entire computational cycle was repeated until convergence of successive approximations was achieved (usually, 5 to 6 cycles). An additional computation was made of the so-called "variations," i.e., the changes of the right ascension and declination of the satellite due to an assumed 1-second error in the time determination by the observer; this variation was found to be useful in the analysis, and reconciliation of differences between observational values and theory. Elimination of gross errors, e.g., incorrect time readings, mistaken identifications of reference stars, etc., was achieved by eliminating any observation with a

Card 2/3

SIBERIAN, N.S.

Methods for calculating the ephemerides of the inner planets and an estimate of their accuracy. Biul. Inst. teor. astron. 10 no.2:143-163 '65.
(MIRA 18:7)

ACC NR: AR0019457

SOURCE FILE: UR/0269/66/000/002/0009/0009

AUTHOR: Subbotina, N. S.

TITLE: Methods of computing ephemerides of the inner planets and the evaluation of their accuracy

SOURCE: Ref. zh. Astronomiya, Abs. 2.51.81

REF SOURCE: Byul. In-ta teor. astron. AN SSSR, v. 10, no.2, 1965, 143-163

TOPIC TAGS: celestial body motion, calculation, sun, mars planet, mercury planet, venus planet, motion equation

ABSTRACT: The accuracy of the computation of the ephemerides of the inner planets is considered, and the accuracy of the existing analytical theories which explain the motion of the Sun, Mars, Mercury, and Venus is evaluated. Newcomb's theory is used to compute the ephemerides of the Sun, Mercury, and Venus. However, in the present paper corrections are introduced into Newcomb's values of orbital elements, derived by H. R. Morgan, G. M. Clemence, and R. L. Duncombe to improve the accuracy of the ephemerides. G. M. Clemence's theory was applied to determine the position of Mars. It is proposed to determine the positions and velocities of the inner planets by the method of numeric integration of equations of motion, since the study of man-made celestial bodies is predicated on the precise values of coordinates and velocities of the inner planets. For the solution of other important applied problems, which do not require high accuracy, the use of the Newcomb's theory is recommended.

Card 1/2

UDC: 521.5

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

ACC N'R: AR6019467

acy of ephemerides of the inner planets, simplified theories of motion have been developed and tested over a fifty-year period. Bibliography of 17 titles. M. Furzenko.
/Translation of abstract/

SUB CODE: 03

Card 2/2

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

SUEROTINA, N. V. --"The Effect of Withering on the Oxidation-Reduction Regime and Metabolism of Plants." Acad Sci USSR. Inst of Plant Physiology imeni K. A. Timiryazev. Moscow, 1955. (Dissertation for the Degree of Candidate in Biological Science).

SO Knizhanay letopis'
No 2, 1956

SUBBOTINA, N.V.

Effect of wilting on redox conditions in plants [with summary in English]. Fiziol.rast. 6 no.1:42-47 Ja-F '59. (MIRA 12:2)

1. Scientific Research Institute of Gardening, Viticulture and Wine Production.
(Oxidation-reduction reaction)
(Plants--Transpiration)

SUBBOTINA, N.V.

Effect of wilting on carbohydrate transformation. Fiziol.rast. 8
no.3:279-283 '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut sadovodstva, vinogradarstva i
vinodeliya, Kishinev.

(Plants--Transpiration) (Sugars)
(Oxidation-reduction reaction)

SUBBOTINA, N.V.

Effect of wilting on the transformation of nitrogenous substances
in leaves. Fiziol. rast. 9 no.1:86-90 '62. (MIRA 15:3)

1. Scientific-Research Institute of Horticulture, Viticulture and
Wine Making, Kishinev.
(Plants--Water requirements) (Nitrogen metabolism)

L 11215-67 IWT(1) GW

ACC NR: AR6016947

SOURCE CODE: UR/0169/65/000/012/B024/B024

AUTHOR: Petrosyants, M.A.; Subbotina, O. I.; Chanyshcheva, S. G.

B

TITLE: The influence of Central Asia orography upon the average temperature field

SOURCE: Ref. zh. Geofizika, Abs. 12B163

REF SOURCE: Tr. Sredneaz. n.-i. gidrometeorol. in-ta, vyp. 20(35), 1965, 158-171

TOPIC TAGS: atmospheric temperature, orography ~~temperature-influence~~ / Central Asia
atmospheric temperature

ABSTRACT: The influence of Central Asia orography upon the average temperature field at various seasons was studied by comparing the average meridional and latitudinal vertical sections of the temperature field for Jan., Apr., Jul. and Oct. 1960-1963 (the crossections of temperature differences over mountains and over plains rather than the actual temperature field are presented). It is necessary to distinguish between large scale influence of the mountain systems upon the temp. field, and the local influences. In the summer, the mountain systems are large scale heat sources and therefore the temp. over the mountains up to a height of 5 - 6 km (1-2 km higher than the ridge level) is warmer than over the plains. Higher, due to the dynamic influence of the mountain systems creating a predominance of ascending currents, the atmosphere over the mountains is cooler. In the winter the mountain systems represent large scale cold sources, but the radiational cooling does not extend to great height and the temp. over mountains is close to the air temperature over the plains. The dy-

UDC 551.524.551.43

Cord 1/2

ACCESSION NR: AT4012401

8/2648/63/000/015/0048/0053

AUTHOR: Subbotina, O. I.

TITLE: Some peculiarities of the temperature field in the mountains of Central Asia

SOURCE: Tashkent. Sredneaziatskiy nauchno-issledovatel'skiy gidrometeorologicheskiy
institut. Trudy*, no. 15, 1963, 48-53

TOPIC TAGS: meteorology, temperature field, atmospheric temperature, mountain
temperature, mountain wind, valley wind, atmospheric turbulence

ABSTRACT: The formation of a temperature field depends not only on local radiation factors, but also on advective factors which are of substantial importance in turbulent weather when masses of cold air invade Central Asia or tropical air is carried away. Measurement of the temperature in Dushanbe and Tashkent showed that the daytime temperature differences are negative; it is colder over the valley and foothill area than over the mountains at the same level; thus, conditions for a valley wind are created. The nighttime differences, however, are positive; it is warmer over the valley and the foothill area than over the

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ACCESSION NR: AT4012401

mountains, which creates conditions for a mountain wind. At the time of the expedition, clear anticyclonic weather prevailed in Central Asia. Usually, in such weather, temperature inversions are formed at night. In the Kum-Bel mountain pass there were no inversions, whereas radio-sounding in Tashkent and Dashanbe revealed an inversion layer at the earth's surface. This peculiarity can be explained by an increased turbulent interchange which prevents the formation of inversions, and by adiabatic warming of the air descending from the free atmosphere. In the daytime, with clear cloudless weather, the difference in temperature gradients is positive. In the nighttime, the temperature in the mountains falls slower than in the free atmosphere, and the daily differences are positive. This peculiarity disappears in turbulent weather. The above-mentioned laws of temperature distribution over mountain passes characterize the temperature fields of passes with similar geophysical conditions. It is concluded that the influence of the Central Asian mountains causes the temperature in the mountains to be higher in the daytime and lower at night than at the same level of the atmosphere over the foothill area in anticyclonic weather. In such weather, in the daytime, the vertical temperature gradient over the mountains is higher than in the free atmosphere. Orig. art. has: 2 figures and 4 tables.

Card 2/3

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CIA-RDP86-00513R001653720004-3

ACCESSION NR: AT4012401

ASSOCIATION: Sredneaziatskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut, Tashkent (Central Asian Scientific Research Institute for Hydrometeorology)

SUBMITTED: 00

DATE ACQ: 20Feb64

ENCL: 00

SUB CODE: ES

NO REF Sov: 006

OTHER: 000

Card 3/3

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CIA-RDP86-00513R001653720004-3"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

MOLOSHKA, M....; PETROSYANTS, M.A.; SUBBOTINA, O.I.

Experience in advective temperature forecasting in the lower
half of the troposphere in Central Asia. Trudy Sred.-Az.
nauch.-issl. gidrometeor. no.23:66-73 '65. (MIRA 19:2)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

GABRIYLOVA, M.G.; LEVIN, V.F.; SUBBOTINA, O.P.

Ways of utilizing silica gel of superphosphate plants. Khim.
(MIRA 16:8)
prom. no.6:417-419 Je '63.

(Silica) (Phosphates)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

PETROSYANTS, M.A.; SUBBOTINA, O.I.; CHANYSHEVA, S.G.

Influence of the orography of Central Asia on the mean temperature
field. Trudy Sred.-Az. nauch.-issl. gidrometeor. inst. no.20:158-
171 '65. (MIRA 18:10)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

SUBBOTINA, Praskov'ya Avilovna; SHVYDCHENKO, L.I., red.; BOROVINSKAYA,
L.M., tekhn. red.

[Shop for machine sheepshearing; from experience on the
Khrushchev State Sheep Raising Farm in Zimovniki District]
TSekh mashinnoi strizhki ovets; iz opyta ovtsevodcheskogo
sovkoza imeni Krushcheva, Zimovnikovskogo raiona. Rostov-na-
Donu, Rostovskoe knizhnoe izd-vo, 1962. 34 p. (MIRA 15:3)

1. Glavnyy zootekhnik Sovkoza imeni Khrushcheva, Zimovnikovskogo
rayona (for Subbotin).
(Zimovniki District—Sheepshearing)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

KHOROSHAYA, Ye.S., kand.tekhn.nauk; LYKOVA, A. N., nauchnyy sotrudnik;
SUBBOTINA, P.V., inzh.; KLIMKOVA, A.F., inzh.

Rapid method of determining the salicylanilide content of
fabrics. Nauch.-issl.trudy VNIIPIK no.12:110-111 '60.
(MIRA 16:2)

(Textile fabrics) (Salicylanilide)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

KHOROSHAYA, Ye.S.; KOROL'KOVA, K.D.; PAVLOVA, Z.S.; SUBBOTINA, P.V.

Determining the migratory stability of organic pigments
and lacquer in polyvinyl chloride films. Kozh.-obuv. prom.
6 no.4:32-33 Ap'64. (MIRA 17:5)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

YUGOSLAVIA

Dr R. SUBOTIC [Affiliation not given]

"The Second Inter-Section Meeting of Slovenian and Croatian Otolaryngologists."

Zagreb, Lijecnicki Vjesnik, Vol 65, No 2, 1963; pp 191-192.

Abstract: Report on the 2-day meeting held in Otocac in May 1962: problems of radiology and therapy of malignancies were main topic. About 20 papers are reviewed in brief, mostly in 1 sentence each, mentioning who presented them.

1/1

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUSPETINA, T.V.

'9314. Terapiya raka vek. Voprosy onkologii i rentgenologii, No. 1-2, 1958,
s. 129-140.

SO: Izdatya Ak. Nauk Latvivskoy SSR, No. 9, Sept., 1955

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

67764

5.2200(C)
18. P100

SOV/126-8-5-17/29

AUTHORS: Stafeyeva, N.M., Bogoslovskiy, V.N., Chufarov, G.I.,
and Subbotina, V.A.

TITLE: Reduction of Copper Ferrite with Graphite

PERIODICAL: Fizika metallov i metallovedeniye, Vol 8, 1959, Nr 5,
pp 740-746 (USSR)

ABSTRACT: The authors describe their investigation of the kinetics and mechanism of the reduction of the tetragonal and cubic forms of copper ferrite CuFe_2O_4 with graphite in vacuum. The graphite powder was prepared by grinding Acheson electrodes and calcination at 1200 °C without air and in a vacuum at 1000 °C. The ferrite was obtained from a mixture of the composition $\text{CuO} \cdot \text{Fe}_2\text{O}_3$ by heating in air at 1000 °C for 30 hours. By cooling rapidly in water the cubic form was obtained; holding at 700 °C and cooling slowly gave the tetragonal form. For the reduction a previously described (Ref 6) apparatus with a quartz spring balance was used, the sample weight being 0.5 g ferrite and 0.15 g graphite. Preliminary degassing of the thoroughly mixed sample was effected at 300 °C and 10⁻⁵ mm Hg. The weight-loss was determined together with the corresponding weight of ✓

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67764

SOV/126-8-5-17/29

Reduction of Copper Ferrite with Graphite

Reduction of Copper Ferrite with Graphite carbon dioxide evolved (trapped in a low-temperature trap) and from the difference the weight of carbon monoxide was calculated. The solid reaction products were studied by X-ray diffraction, the lattice parameters being determined by graphical extrapolation. Fig 1 shows rates of reduction as functions of degree of reduction at 650, 700, 750, 800, 900 and 1000 °C for tetragonal ferrite; Fig 2 shows the curve for 900 °C. The corresponding curves for the tetragonal and cubic ferrites are compared in Fig 3. Fig 4 shows degrees of reduction as functions of time for the tetragonal form at 800 and 900 °C, and Fig 5 the lattice parameter of this ferrite with respect to reduction temperature. For both forms the reduction occurs in a stepwise manner: $\text{CuFe}_2\text{O}_4 \rightarrow \text{Cu} + \text{Fe}_3\text{O}_4$; $\text{Fe}_3\text{O}_4 \rightarrow \text{FeO}$; $\text{FeO} \rightarrow \text{Fe}$. At 650, 700, 750, and 800 °C only the first stage occurs, at 900 °C and over all three. The reduction rates of the first and third stages show a maximum. By reducing the tetragonal form above the transformation temperature a solid solution of iron in copper is obtained, this being associated with the simultaneously occurring process of the transformation ✓

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SOV/126-8-5-17/29

Reduction of Copper Ferrite with Graphite

of the tetragonal copper-ferrite lattice into the cubic.
The authors suggest the following reduction mechanism.
As oxygen is removed from the ferrite surface an excess
of iron and copper ions is produced. Copper being less
firmly attached to oxygen forms a metallic phase, while
the iron diffuses into the ferrite particle, displacing
copper. Part of the trivalent iron ions are reduced to
the bivalent form, the ferrite lattice then approximating
to that of magnetite. After all the ferrite has been
converted to magnetite the reduction of the latter begins,
which proceeds as described by Arkharov, Bogoslovskiy,
Zhuravleva and Chufarov (Ref 7).

Card
3/3 There are 5 figures, 1 table and 7 references, of which
3 are Soviet, 2 French, 1 English and 1 Acta
Crystallographica.

ASSOCIATION: Institut metallurgii UFAN SSSR
(Institute of Metallurgy, Ural Branch of Acad.Sci. ✓
USSR)

SUBMITTED: March 18, 1959

5-(2) 18.7110, 15.2000

66427

AUTHORS: Stafeyeva, N. M., Bogoslovskiy, V. N., SOV/20-128-6-32/63
Chufarov, G. I., Corresponding Member
AS USSR, Subbotina, V. A.

TITLE: Reduction of Copper Ferrite by Graphite

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, pp 1210 - 1213
(USSR)

ABSTRACT: The authors investigated the kinetics and mechanism of the reduction of tetragonal and cubical copper ferrite in the vacuum. The graphite used for this purpose was prepared from pulverized Acheson electrodes by roasting at 1200° without access of air, then at 1000° in the vacuum. The ferrite was annealed in the air in a mixture of $\text{CuO}\cdot\text{Fe}_2\text{O}_3$ at 1000° for 30 hours. The products of sintering were exposed for 3 hours at 700° for obtaining a product with tetragonal lattice, and cooled down together with the furnace. The cubical form was obtained by quenching in water directly after annealing. The ferrite quantity weighed was carefully pulverized with graphite. The experiments were made in a vacuum apparatus (Ref 6). The reduction was carried out both below the point of transformation (760°) of tetragonal ferrite ✓ |

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Reduction of Copper Ferrite by Graphite

66427

SOV/20-128-6-32/63

into the cubical form (spinel), i.e. at 650, 700 and 750°, and above this point (800, 900, 1000°). Figures 1 and 2 show the curves of reduction of tetragonal ferrite. Below 900°, a low-percentage reduction (11, 18, 24 and 35%, respectively) was attained. At 900 and 1000°, the sample was reduced with 100%. The initial stage of reduction exhibits the highest reaction rate. Then it falls rapidly, and is very low at a reduction of 40-50%. Above 50%, the reaction is again accelerated (Fig 2, right-hand side). Figure 3 compares kinetic curves representing the dependence of the reduction rate of tetragonal and cubical ferrite on the reduction degree at 700, 800 and 1000°. This shows that the reduction rate of cubical ferrite, at equal temperatures, is lower than that of tetragonal ferrite. Besides, there is no maximum rate in the 1st stage, in the case of cubical ferrite. At the beginning, the gaseous reaction products consist of CO and CO₂-mixture (60-65% CO₂). After a 70% reduction, they consist of almost pure CO. Subsequently, the roentgenogram of the solid reaction products is discussed, and a presumable mechanism of the crystal-chemical transformation during the reduction of the two forms is suggested: CuFe₂O₄ → Cu + Fe₃O₄; Fe₃O₄ → FeO;

Card 2/3

4

BESOVTSYVA, A.G.; SIRNOV, A.G.; MAANVERE, E.; LILLEMAA,A.,
kand. sel'khoz. nauk; PIKHLASTE, L.K.[Pihlaste, L.];
PROKHOROVA, Z.P.; MARTIN, I.; KUL'BIN, V.P.; ISAYEVA,
Z.I.; EYPRE, T.F.[Eipre, T.]; RODINA, N.V.; SUBBOTINA,
V.N.; ZHDANOVA, L.P., red ; BRAYNINA, M.I., tekhn. red.

[Agriclimatological manual for the Estonian S.S.R.] Ag-
roklimaticheskii spravochnik po Estonskoi SSR. Lenin-
grad, Gidrometeoizdat, 1960. 197 p. (MIRA 17:1)

1. Estonian S.S.R. Upravleniye gidrometeorologicheskoy
sluzhby. 2. Estonskiy nauchno-issledovatel'skiy institut
zemledeliya i melioratsii (for Lillemaa). 3. Glavnyy
agronom Upravleniya sadovodstva i pchelovodstva Minister-
stva sel'skogo khozyaystva Estonskoy SSR (for Kul'bin).
(Estonia--Crops and climate)

KARPINSKIY, V.I., kand. tekhn. nauk; TSIMBARG, Ye.I., inzh.; PALAGIN, Ye.V.,
inzh.; SUBBOTINA, V.N., inzh.; TELEZHNIKOV, N.S., inzh.

Beam spans for automobile bridges of centrifuged blocks. Transp. stroi.
15 no.5:26-28 My '65. (MIRA 18:7)

BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.;
GUREVICH, G.M.; GORBUNOVA, P.I.; KONNOV, A.S.; KALANTAROVA, M.V.;
KASHIRSKIY, A.Ya.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETI-
CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;
SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.;
-EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE-
CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,
D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,
A.F.; SEREZHENIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV,
V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;
CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;
OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,
I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;
VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.;
BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.;
VIDETSKIY, A.F., kand.tekhn.nauk, glavnnyy red.; DEMIDOV, A.N., red.;
KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaia Astrakhan'. Astrakhan',
Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskiy administrativnyy rayon.
(Astrakhan Province--Economic conditions)

MISHCHENKO, K.P., doktor khimicheskikh nauk; DYMARCHUK, N.P., kand.
khimicheskikh nauk; SUBBOTINA, V.V., inzh.

Thermodynamics of the interaction of cellulose with water and
water solutions of electrolytes. Part 4: Effect of predissolved
nitrates on the integral heat of the interaction of cellulose
with water. Trudy LTITSEPP no.8:114-119 '61. (MIRA 16:9)
(Woodpulp) (Nitrates) (Heat of adsorption)

AUTHORS: Al'tshuler, O. V., Subbotina, Ya. A., Afanas'yeva, A. F. 70-3-5-23/39

TITLE: The Separation of Niobium and Titanium by Means of the Ion Exchange Method (Razdeleniye niobiya i titana metodom ionnogo obmena)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1956, Vol 5, Nr 5, pp 1192-1199 (USSR)

ABSTRACT: The separation of niobium and titanium by way of their complex-ions was achieved by means of applying ion-exchange. In order to determine the optimum work conditions for the separation of niobium-titanium, the isothermal lines of adsorption of both niobium and titanium were defined and the coefficients of distribution were determined. The elution from the exchange-column takes place completely in 5 n HCl. In 6 to 8rHCl, niobium is **hardly** eluted. A mixture of HCl-HF was found to be the best means of elution for niobium.

Card 1/3 The ion-exchange of niobium-titanium is carried out

The Separation of Niobium and Titanium by Means
of the Ion Exchange Method

78 3-5-23/39

according to the following scheme:

- 1) Common adsorption of Nb and Ti from 2 n HCl;
- 2) Eluting of Ti with 6 to 7 n HCl;
- 3) Eluting of Nb by a mixture of HCl + HF.

In the investigations of the kinetics of the ion-exchange of niobium-titanium it was found that some complex-ions, the composition of which depends on the concentration of hydrochloric acid, exist in hydrochloric acids. Niobium and titanium form in mixed solutions complex-ions in which the two elements are represented, and the presence of these mixed complexes makes the separation niobium-titanium difficult. The behaviour of tantalum in hydrochloric acid solution was also investigated and it was shown that tantalum is not of an ion exchange character. A course of separation for the production of purest niobium was elaborated.

There are 12 figures and 6 references, 1 of which is Soviet.

Card 2/3

The Separation of Niobium and Titanium by Means of the Ion Exchange
Method

78-3-5-23/39

SUBMITTED: May 7, 1957

AVAILABLE: Library of Congress

1. Niobium--Separation 2. Titanium--Separation 3. Ion
exchange--Applications

Card 3/3

AL'TSHULER, O.V.; SUBBOTINA, Ye.A.

Part 2: Removing niobium and titanium impurities from tantalum by
the ion-exchange method. Zhur.neorg.khim. 3 no.1:28-32 Ja '59.

(MIRA 12:2)

(Tantalum)

(Ion exchange)

SCV/78-4-1-6/48

5(2)

AUTHORS:

Al'tshuler, O. V., Subbotina, Ye. A.

TITLE:

II. The Purification of Tantalum From Niobium and Titanium
Impurities by the Ion Exchange Method (II. Ochistka tantala
ot primesey niobiya i titana metodom ionnogo obmena)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 1, pp 28-32
(USSR)

ABSTRACT:

The paper under review describes new **process** conditions for the purification of considerable quantities of niobium and tantalum without the use of fluoric acid of high concentration. The anionites EDE-10 and AN-2F were used as adsorbents. The adsorption isothermal lines of niobium, tantalum, and titanium, and the dependence of the distribution coefficient of tantalum on the C_{HCl} concentration were determined and are shown in figures 1 and 2. It was found that tantalum from hydrochloric acid solutions is not adsorbed at ion exchangers. The non-ionogenic character of tantalum was confirmed with radioactive tantalum. It was found that in concentrated hydrochloric acid solutions tantalum is a non-dissociated colloidal solution.

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SOV/78-4-1-6/48

II. The Purification of Tantalum From Niobium and Titanium Impurities by the Ion Exchange Method

A new method of purifying and producing tantalum of highest purity from hydrochloric acid solutions was suggested. Purified tantalum only contains niobium traces (0.009% Nb and less than 0.05% titanium). The slight impurities in highly concentrated tantalum are adsorbed at the ion exchanger and tantalum remains in solution because of its minimum adsorptive capacity to anionites. There are 3 figures, 2 tables, and 5 references, 3 of which are Soviet.

SUBMITTED: October 24, 1957

Card 2/2

S/828/62/000/000/008/017
E039/E420

AUTHORS: Subbotina, Ye.A., Chizhikov, D.M., Al'tshuler, O.V.

TITLE: The separation of the chlorides of titanium, niobium and tantalum by the ion exchange method

SOURCE: Razdeleniye blizkikh po svoystvam redkikh metallov. Mezhvuz. konfer. po metodam razdel. blizkikh po svoystv. red. metallov. Moscow, Metallurgizdat, 1962, 98-106

TEXT: Continuing previous work on this subject a scheme for the separation of Nb and Ta in their complex ions is developed using anion exchange resins ЭДЭ-10 (EDE-10) and АН-2Ф (AN-2F). Nb and Ti are separated by dissolving their chlorides in concentrated HCl solution and passing through a column filled with anion exchange resin on which both metals are adsorbed. The column is then washed with 6 to 8 N HCl which removes nearly all the Ti. After further washing with 2 to 3 N HCl all the Ti is removed and about 60% of the Nb remains on the resin. This is removed by washing in dilute HCl containing 3 to 5 g/litre of Na. The Nb₂O₅ precipitated from the final fraction contains < 0.1% Ti. A method is proposed for separating Nb and Ti and other elements

Card 1/2

CHIZHIKOV, D.M.; RABINOVICH, B.N.; SUBBOTINA, Ye.A.; KORSUNSKAYA, V.N.

Ion exchange method for the separation of fluorine from rare earths in solutions containing calcium and silicon present together. Zhur.prikl.khim. 35 no 2:276-280 F '62. (MIRA 15:2) (Fluorine—Analysis) (Rare earths—Analysis) (Ion exchange resins)

L 8147-66 EWT(m)/EWP(b)/EWP(t) IJP(c) JD/JG

ACC NR: AP5027209

SOURCE CODE: UR/0078/65/010/011/2527/2534

AUTHOR: Chizhikov, D. M.; Rabinovich, B. N.; Subbotina, Ye. A.

ORG: None

TITLE: Thermal decomposition of cerium, neodymium, and gadolinium nitrates

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 11, 1965, 2527-2534

TOPIC TAGS: nitrate, cerium compound, neodymium compound, gadolinium compound, thermal decomposition

ABSTRACT: The article describes the use of chemical, thermographic, x-ray, and magnetometric methods of analysis to study the thermal decomposition of cerium, neodymium, and gadolinium nitrates in air and to determine the nature of the gases formed as a result of the decomposition. The rare earth content in the nitrate was determined by the weight method, and the nitrogen by the Devarda method. The molecular formula of the compound was calculated from the experimental data and the thermographic analysis was done with a Kurnakov pyrometer. X-ray analysis was done by the powder method and the magnetic susceptibility was determined by the Gouy method. Results indicate that the process of dehydration of cerium nitrate takes place in the temperature

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UDC: 546.662'175+546.655'175+546.657'175

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interval 75-130 C, that of neodymium in two stages at 80-150 and 150-300 C, and that of gadolinium nitrate within the temperature limits of 100-300 C. Formation of oxides during the thermal decomposition of the nitrates is observed for cerium nitrate at 170 C, for neodymium nitrate at 300 C, and for gadolinium nitrate at 400 C. Orig. art. has: 10 figures and 7 tables.

SUB CODE: GC, IC/ SUBM DATE: 16Apr64/ ORIG REF: 002/ OTH REF: 005

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Card 2/2

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SYURIN, V.N.; SUBBOTINA, Ye.B.

Specific prophylaxis of fowl pox-diphtheria in connection with
the reactivity of the poultry organism. Trudy Gos.nauch.-kont.inst.
vet.prep. 4:116-128 '53. (MIRA 7:10)
(Chicken pox in poultry--Preventive inoculation)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

MAKHONINA, G.I.; MOLCHANOV, I.V.; SUBBOTINA, Ye.N.; TIMOFEEV-RASOVSKIY
N.V.; TITLYANOVA, A.A.; TYURUKANOV, A.N.

Experimental investigation of radioisotope distribution in
natural biogeocoenoses. Dokl.AN SSSR 133 no.2:484-487
J1 '60. (MIRA 13:7)
(Radioactive substances) (Forest ecology)

SUBBOTINA, Ye.N.; TIMOFEEV-RESOVSKIY, N.V.

Coefficients of the accumulation of some dispersed elements from aqueous solutions by scablike lichens. Bot. zhur. 46 no. 2:212-221 F '61. (MIRA 14:2)

1. Laboratoriya biofiziki Ural'skogo filiala Akademii nauk SSSR,
Sverdlovsk.
(Lichens) (Trace elements) (Plants--Assimilation)

LEVIN, F.I.; SUBBOTINA, Ye.N.

Effect of large amounts of mineral fertilizers upon the acidity of soil solution and the mobility of elements in little-cultivated strongly podzolized turf soils. Nauch. dokl. vys. shkoly; biol. nauki no.3:218-222 '63. (MIRA 16:9)

1. Rekomendovana agrobiologicheskoy stantsiyey biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta im. Lomonosova. (Fertilizers and manures) (Soil chemistry) (Podzol)

1. BOGDANOV, T. N. and SUBBOTINA, Ye. P.
2. USSR (600)
4. Physics and Mathematics
7. Guide to Practical Occupations in Physics, T. N. Bogdanov, and Ye. P. Subbotina. (Moscow, "Soviet Science") Reviewed by I. A. Yakovlev, Sov. Kniga, No. 9, 1951.
9. [REDACTED] Report U-3081, 16 Jan. 1953. Unclassified.

Laboratory Methods for the Study of Semiconductor Devices

SOV/4515

thermoelements, e.g. thermoelectric generators and electric coolers, semiconductor rectifiers, Hall germanium emf transmitters for the measurement of magnetic field intensity, transistors and instruments based on various types of photoeffects (various photocells). The author thanks Professor Yu. N. Maslakovets, A.N. Voronin, Ye. K. Iordanishvili and V.K. Subashiyev, all of the Institut poluprovodnikov AN SSSR (Institute of Semiconductors, Academy of Sciences USSR) and A.A. Andreyeva, Senior Laboratory Assistant, V.M. Bodrov and V.A. Julyy, Laboratory Assistants of the Laboratoriya obshchey fiziki Leningradskogo universiteta (Laboratory of General Physics of Leningrad University), and O.B. Vasil'yev, a former student. The individual chapters are accompanied by references, all Soviet.

TABLE OF CONTENTS:

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Ch. I. Semiconductor Thermistors	12
Temperature dependence of resistors and some basic thermistor parameters	13

Card 2/6

SUBBOTINA, Yu.L.

Experience in introducing into practice the accelerated regi-
men of the lyophilization of BCG vaccine. Trudy IEMG no.7:
28-42 '60. (LYOPHILIZATION) (BCG) (MIRA 16:8)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

KLYUYEVA-YABLOKOVA, T.B.; RAKHIMOVA, N.G.; SUBBOTINA, Yu.L.

Preparation of dry BCG vaccine for intradermal application.
Trudy IEMG no.8:263-270 '61. (MIRA 17:2)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

37698

S/126/62/013/004/006/022
E039/E435

18-8100

AUTHORS: Subbotina, Z.S., Shturkin, D.A., Yanus, R.I.

TITLE: On the fields of surface defects in ferromagnetic bodies with residual magnetization

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.4, 1962,
529-535

TEXT: Description of an apparatus for the measurement of the radial and azimuthal components in the magnetic field near the surface of steel cylinders with quenching and very fine cracks which are perpendicular to the direction of magnetization, small cavities and also regions of non-uniform structure. The probe consists of a Permalloy 79HM (79NM) rod (length 2.5 mm, diameter 0.048 mm) with an excitation coil of 120 turns and an indicator coil of 150 turns. The excitation field is sinusoidal (24 Oe, 160 Kc/s). Signals from the probe are measured by tube voltmeters and presented as Lissajous figures on an oscilloscope. The samples were 24 mm long, 23 mm diameter bearing rollers of 15 X 15 (ShKh15) steel. On three particular rollers out of the Card 1/2

SUBJECT: V. I.

25665 SUBJECT: V. I. Stroitel'nye svyazstus tyazhelykh izvestnyakov
Kryma. Sbornik trudov(Nauch.-issled. in-t po stroit-vu). I, 1949
s. 49-66--Bibliogr: "Literatura po krymskim tyazhelym izvestnyakam", 21 nazv.

So: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

1. SUBBOTIN, M. I.
- 2a. USSR (6'0)
4. Building Materials
7. New way of increasing the durability of buildings materials
Stroi. prom. 30, No. 4, April 1952
Kand., Tekhn., Nauk
9. Monthly List of Russian Accessions, Library of Congress, August 1952.
Unclassified.

SUBBOTKIN, M. I.

USSR/Engineering - Construction, Raw Materials, Concrete Jan 53

"Hidden Resources of the Construction Industry,"
P. P. Budnikov, Corr Mem Acad Sci USSR and M. I.
Subbotkin, Cand Tech Sci

Vest Ak Nauk, SSSR, No 1, 1953, pp 47-50

The cement industry has completely ignored a very good source of raw material for concrete-blast furnace slag. Article discusses the problems of utilization, stating it would be a simple matter for metallurgical plants to crush cinders from their furnaces and send it to a cement plant. A

271T6Q

method for use of crushed cinders has already been worked out by V. F. Krylov, V. V. Serov and others.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

DESOV, A.Ye., doktor tekhn.nauk, prof.; DMITRIYEV, A.S., kand.tekhn.nauk;
LEYRIKH, V.E., kand.tekhn.nauk; SUBBOTKIN, M.I., kand.tekhn.nauk.

Durability of buildings made from blocks using local binding
materials. Stroi.prom. 35 no.7:2-7 J1 '57. (MIRA 10:10)
(Building materials) (Strength of materials)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

SUBBOTKIN, M. I., kand.tekhn.nauk

Corrosion of architectural structures in a postash combine.
Prom.stroi. 8 no.7:41-45 '60. (MIRA 13:7)
(Potash industry)
(Corrosion and anticorrosives)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUBBOTKIN, M.I., kand.tekhn.nauk

Anticorrosion concrete coatings for metal construction elements.
From. stroi. 39 no. 1:47-48 '61. (MIRA 14:1)
(Steel, Structural--Corrosion) (Protective coatings)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

SUBBOTKIN, M.I., kand. tekhn. nauk, nauchnyy red.; GUZMAN, M.A., red.
izd-va; ZAYCHIKOVA, E.A., red. izd-va; MOCHALINA, Z.S., tekhn.
red.

[Protection of building materials from corrosion] Zashchita
stroitel'nykh konstruktsii ot korrozii. Moskva, Gosstroi-
izdat, 1962. 121 p. (MIRA 15:12)

1, Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut po
stroitel'stvu.
(Building materials--Corrosion)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUBBOTKIN, M.I., kand.tekhn.nauk; TRINKER, B.D., kand.tekhn.nauk

Effect of vibration mixing on the strength of mortars and
concretes. Bet. i zhel.-bet. 8 no.6:271-274 Je '62. (MIRA 15:7)
(Vibrated concrete--Testing)
(Mortar--Testing)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

SUBBOTKIN, M.I., kand.tekhn.nauk; TOKAREVA, L.G., inzh.; BAIYEN, I.Ye.,
inzh.

Concrete supports for potassium mine shafts. Mont.i spets.rab.
v stroi. 24 no.12:17-19 D '62. (MIE: 15:12)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.
(Potassium) (Mine timbering) (Concrete--Corrosion)

"APPROVED FOR RELEASE: 08/26/2000

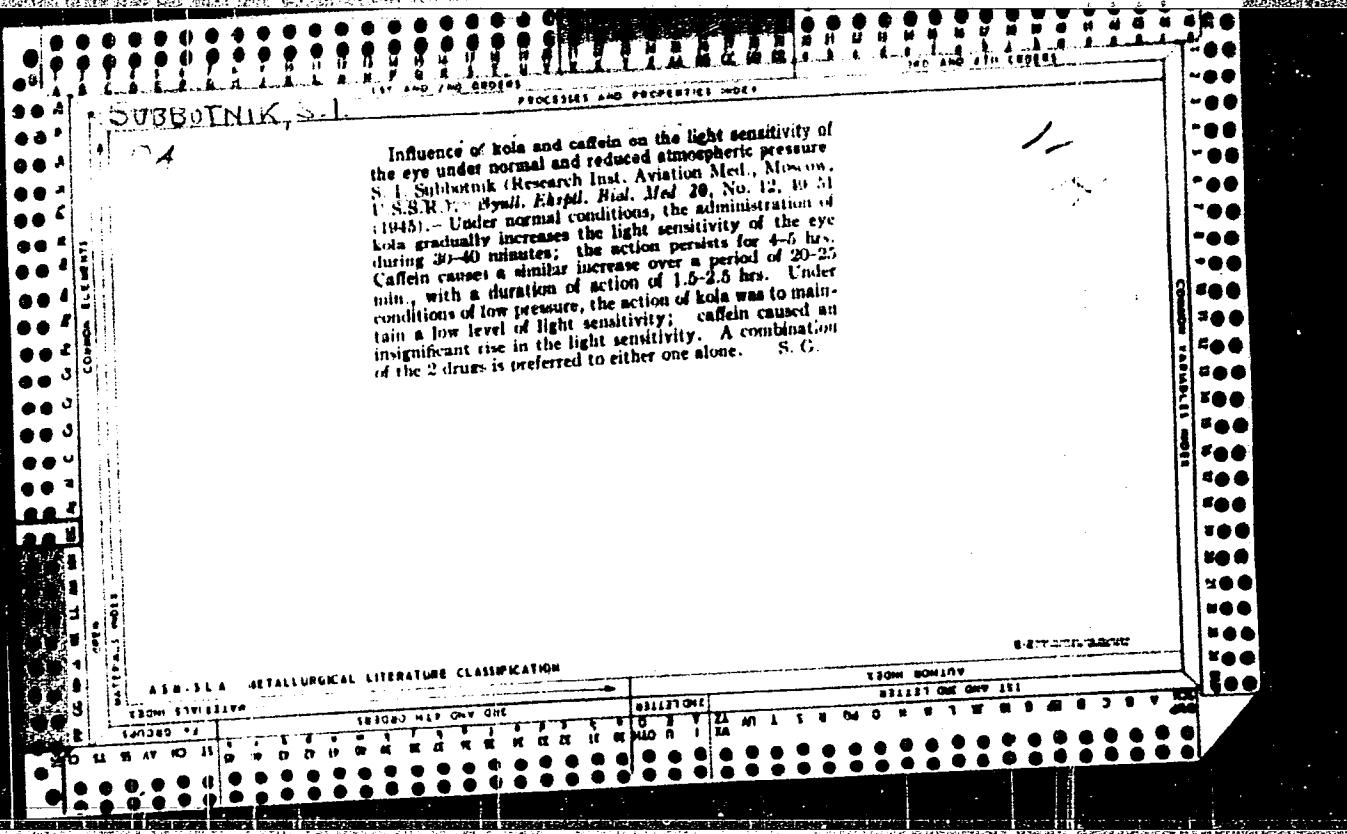
CIA-RDP86-00513R001653720004-3

SURBOTNIK, A.S.

Reasons for the geographical distribution limit of the tick *Rhipicephalus sanguineus*. Med.paraz. i paraz.bol. 25 no.3:272 Jl-5 '56.
(TICKS) (MLRA 9:10)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"



"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUBBOTNIK, S.I.;SHPIL'BERG, P.I.

Electroencephalographic studies in hypertension. Klin. med., Moskva
31 no.5:66-74 May 1953.
(CLML 25:1)

1. Professor for Subbotnik; Doctor Medical Sciences for Shpil'berg.
2. Moscow.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUBBOTNIK, S.I., professor; FAYNBERG, Yu.S.; SHPIL'BERG, P.I., doktor
meditsinskikh nauk (Moskva)

Electroencephalographic studies on paroxysmal tachycardia. Terap.
arkh. 26 no.3:10-17 My-Je '54. (MLRA 7:9)
(ELECTROENCEPHALOGRAPHY, in various diseases,
*tachycardia, paroxysmal)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUBBOTNIK, S.I.; SHPIL'BERG, P.I. (Moskva)

Electroencephalographic studies in epilepsy. Zhur.nevr. i psikh.
Supplement:70-71 '57. (MIRA 11:1)
(EPILEPSY) (ELECTROENCEPHALOGRAPHY)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

SUBBOTNIK, S.I.; SHPIL'BERG, P.I.

Electroencephalographic studies of old people in health and
in pathology. Trudy MOIP.Otd.biol.6:135-144 '62. (MIRA 16:7)

1. The Moscow Research Institute of Sanitation and Hygiene,
Clinical Department and The Moscow Hospital of the Kalinin
Railway Psychoneurological Department.
(AGED) (ELECTROENCEPHALOGRAPHY)

GRIMAL'SKIY, V.L., prof.; CHETYRKIN, V.S., prof., red.toma; RUD', G.Ya.,
kand.sel'skokhoz.nauk, red.; SUBBOTOVICH, A.S., kand.sel'skokhoz.
nauk, red.; KOLESNIK, L.V., doktor sel'skokhoz.nauk, red.; SEME-
NOV, A.N., doktor tekhn.nauk, red.; KOVARSKIY, A.Ye., doktor sel'-
skokhoz.nauk, red.; FROLOV, N.P., doktor ekonom.nauk, red.; MATSYUK,
L.S., kand.sel'skokhoz.nauk, red.; GUSAK, I.V., kand.tekhn.nauk,
red.; URSUL, D.T., kand.filos.nauk, red.; LEGAS', I.Ye., kand.
istor.nauk, red.; SHEVCHUK, I.P., kand.ekonom.nauk, red.; KACHANO-
VA, N., red.; TIMOSHENKO, A.G., kand.sel'skokhoz.nauk, zamestitel'
red.; SHPANER, V., tekhn.red.

[Bodies of water of the Reut Basin, their hydrobiological conditions
and the outlook for their utilization in commercial fishing.]
Vodoemy basseina reki Reuta, ikh gidrobiolpgicheskii rezhim i per-
spektivy rybokhoziaistvennogo ispol'zovaniia. Kishinev, Izd-vo
sel'skokhoz. lit-ry, 1962. 191 p. (Kishinev.Sel'skokhoziaistvennyi
institut im. M.V.Frunze. Trudy, vol.29).
(MIRA 17:2)

Subbotovich, R.S.

✓ Fertilizing during the planting of [vine] grafts. A. S. Subbotovich (Agr. Inst., Kishinev). *Sadovodstvo, Vinogradarstvo i Vinaidnie Moldavii* 11, No. 2, 50-2 (1956). -- An excessive fertilizing during the planting of vine grafts, which are later used as the planting material, decrease the development and the yield of the 1st-class seedlings. This was found when the Moldavian black earth or a loamy black earth were fertilized with the total of 15, 20, and 45 kg. of mixed basic nutrients, N, K, and P (as $(\text{NH}_4)_2\text{SO}_4$, KCl, and superphosphate) per ha. However, the total of 7 kg. of NPK or 10 tons of compost increased the yield of strong and well-developed vine seedlings. The positive effects were observed also with microelements B, Zn, Mn, and Mo in the amounts of 2, 3, 0.5, and 1 kg./ha., resp., added to the soil either alone or in various combinations with each other and (or) the basic fertilizers; 1.5 kg./ha. of humic acid showed only a small addnl. effect. E. Wierlicki

"APPROVED FOR RELEASE: 08/26/2000

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SUBBOTICKOFF, A S

APPROVED FOR RELEASE: 08/26/2000

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"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUBBOTOVICH, A.S.

/The amount and time of application of fertilizers in nurseries

and the effect of different types of fertilizers on the growth of

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

SUBBOTOVICH, A.S.

SUBBOTOVICH, A.S , Cand Agr Sci -- (diss) "Effect of fertilizers upon the yield and quality of grafted planting material for grapes." Kishinev, 1958. 19 pp (Min of Agr USSR. Kishinev Agr Inst im M.V.Frunze). 100 copies. List of author's works, pp 18-19 (12 titles) (KL, 20-58, 100)

Author: A. S. Gabovich, Penza, Russia, Inst.

Title: Method of Grafting Vines, No. 5, 1954, 1954/92

Author: A. S. Gabovich, A.S.; Kozlyuchany, R.V.

Title: A Green Graft Resistant in the Vineyards.

Author: A. S. Gabovich, Vsesoyuznoye Vinodel'ye
Tsel'khoz, 1953, No.2, 12-13

Abstract: The author describes a new method of grafting:
a green single-eyed cutting to the base of
the surviving runners artificially produced
by cutting off the underground stems of the
stock. -S.S.A. Tsel'khoz.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUBBOTOVICH, A.S., kand.sel'skokhozyaystvennykh nauk

Effect of fertilizers on the yield and quality of grafted grape
planting stock. Trudy Kish. sel'khoz. inst. 19:15-57 '60.
(MIRA 14:1)

(Grapes--Fertilizers and manures)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

16.02.00

89723
S/020/61/136/003/006/027
C 111/ C 333

AUTHOR: Subbotovskaya, B. A.

TITLE: Realization of Linear Functions by Formulas in the Basis
V, &, -

PERIODICAL: Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 3,
pp. 553-555

TEXT: The author considers formulas in the basis V, &, -. The number of occurrences of the symbols of variables in the formula F is called its complicatedness and denoted by L(F). Furthermore, let $L(f) = \min L(F)$, where the minimum is taken over all formulas F which realize f in the basis V, &, -. Let f_6^n denote the function $\sum x_1 + \dots + x_n \pmod{2}$. S. V. Jablonskiy (Ref.1) has shown that $L(f_6^n) \leq \frac{9}{8} n^2$. In the present paper the author proves that $L(f_6^n) > cn^{3/2}$, where c is a certain constant. ✓

Theorem: If F is an arbitrary formula in the basis V, &, - which realizes the function f_6^n , then

Card 1/2

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C 111 / C 333

X

Realization of Linear Functions by Formulas in the Basis V, &, -

$$L(F_n) \geq Cn^{3/2}.$$

There is 1 Soviet reference.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V.
Lomonosova (Moscow State University imeni M. V.
Lomonosov)

PRESENTED: August 20, 1960, by A. J. Berg, Academician

SUBMITTED: August 5, 1960

*

Card 2/2

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3

SUBBOTOVSKAYA, B. A.

"On the Comparison of Bases for the Realization of Functions of Algebraic Logic by Means of Formulas" (29 / pril, 6, 13, and 20 May 1960). Some results will be published in DAN SSSR.

paper delivered at the Moscow State University in 1959/1960 academic year at the seminar on mathematical problems of cybernetics under the leadership of S. V. Yablonskiy

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

S/020/63/149/004/003/025
B187/B102

AUTHOR: Subbotovskaya, B. A.

TITLE: Comparison of bases in realizing by formulas some functions of logic algebra

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 4, 1963, 784 - 787

TEXT: The realization of functions in logic algebra by formulas of finite bases is studied. It has been found that the bases used in the realization of concrete functions are not equivalent. Within the set of bases for a certain function a relation of order (\leq) is introduced. B_1 is assumed to be the predecessor of B_2 ($B_1 \leq B_2$) if a constant M - depending only on B_1 and

B_2 - can be given so that for each function f the inequality $L_{B_1}(f) \leq M$.

$L_{B_2}(f)$ is fulfilled. $L_B(f) = \min L(F)$; here $L(F)$ is the number of symbols for the variables in the formula F and the minimum is related to all formulas of base B which realize the function f . The relation of equivalence (\sim) signifies that $B_1 \leq B_2$ and $B_2 \leq B_1$ should be valid. If only $B_1 \leq B_2$ and not $B_2 \leq B_1$ is valid, then B_1 is assumed to be a predecessor of B_2 in

Comparison of bases in ...

S/020/63/149/004/003/025
B187/B102

the "strict sense". The existence of non-equivalent bases is proved e.g.
 $B_0 = \{\emptyset, \nu, -\}$ and $B_1 = \{\emptyset, +(\text{mod}2), 1\}$. The existence of a "poorest" base,
i.e. B_0 , is demonstrated, a necessary and sufficient condition is
established and proved, under which - if it is valid - any base B is equi-
valent to base B_0 . It is also shown under what circumstances a base B is
a predecessor of B_0 in the "strict sense". The prove of the first theorems
of this paper is given by O. B. Lulanov, Problemy kibernetiki, no. 3, 61,
1960. Part of the above considerations refer to the paper of the author in
DAN SSSR, 136, no. 3, 553, 1961.

PRESENTED: October 17, 1962, by P. S. Novikov, Academician

SUBMITTED: September 14, 1962

Card 2/2

SUBBOTOVSKIY, V. P.

KUDELYA, Ye.S.; SUBBOTOVSKIY, V.P.

Spectrum analysis of the composition and uniformity of fused
high-alloy metal. Avtom.svar. 7 no.3:74-81 My-Je '54.(MLRA 7:7)

1. Institut elektrosvarki im. Ye.O.Patona Akademii nauk USSR.
(Alloys) (Spectrum analysis)

Subbotovskiy V.P.

135-58-4-18/19

AUTHOR:

Filyukhanov, L.S., Engineer

TITLE:

Conference on Welding at the Voroshilovgrad Sovnarkhoz (Soveshchaniye po svarke v Voroshilogradskom sovnarkhoze)

PERIODICAL:

Svarochnoye Proizvodstvo, 1958, Nr 4, p 47 (USSR)

ABSTRACT:

A Conference on problems of introducing automatic and semi-automatic welding to industry was organized on November 30, 1957 by the Voroshilovgrad Sovnarkhoz together with the Ukrainian KP Oblast' Committee. There were 200 representatives of industrial enterprises present. The conference heard the following reports: V.P. Subbotovskiy, a Collaborator of the Institut elektrosvarki imeni Ye.O. Patona AN USSR (Institute of Electrowelding imeni Ye.O. Paton of the AS UkrSSR), on new welding methods; V.P. Gorelov, engineer from the Metallurgicheskiy zavod imeni Voroshilova (Metallurgical Plant imeni Voroshilov) on the welding of rollers and machine parts of metallurgical equipment; Vinichenko, chief of the welding section on welding operations at the Diesel locomotive-building Plant imeni Oktyabrskoy Revolyutsii; M.I. Bashkov on experience in welding operations at the coal-mining machine-building plant imeni Parkhomenko; Vorob'yev, a welding operator from the "Voro-

Card 1/2

135-58-4-18/19

Conference on Welding at the Voroshilovgrad Sovnarkhoz

shilovgradugol'"-Combine on cold-welding of cast iron. The Conference decided to organize a technical workshop at the Voroshilovgrad House of Technics, to deliver a series of lectures on welding, and to begin a centralized electrode and carbon-dioxide production and repair of welding equipment.

AVAILABLE: Library of Congress

Card 2/2

卷之四

PHOTO 1 BOOK ELECTROWELDING
A. N. KARAEV, INSTITUTE OF ELECTROTECHNIQUE, Leningrad Institute V.G. KERNOV
Production of metal structures by electroplating, vols. 1-2 (Introduction of
New Welding Methods in Industry), Collection of articles, No. 2, Kirov, Goss.
Izdat. Sib. i Ural. SSR, 1959. 194 p. Errata slip inserted.

M. V. GORIASHNIKOV ET AL.

PURPOSE: This book is intended for workers in the welding industry.

SCOPE: The book contains a discussion of welding techniques and problems by groups of scientists and welders. Much attention is given to problems in the application of new methods of mechanical welding and electron-beam welding. As the second edition of articles under the same title prepared and published by the Institut Electron-beam, Leningrad, the surface is written by B.I. Atan, published in Leningrad, 1960.

Electric Heating seems to be a success in the Ukraine. The author is a member of the Academy of Sciences and Winner of the Lenin Prize. There are no references.

Ishim, A. [A. Engelhardt], Yu. G. Stepanovskii. Elektrosvarkovyi izmern. instrument. V. M. Khrustalev [Senior Engineer]. Institut elektrosvarkovoi tekhniki [Institute of Electric Welding Institute]. Izd. po O. Petru. [Ed. by O. Petrov]. Elektrosvarkovyy zavod im. D. I. Ushakova [Plant named after D. I. Ushakov]. Elektrosvarkovyy zavod [Plant]. [Moscow] : Elektronika [Publisher]; Barnaul' [city]. 1977.

Ishim, A. [A. Engelhardt], Yu. G. Stepanovskii. Elektrosvarkovyy zavod [Plant]. Izd. po O. Petru. [Ed. by O. Petrov]. Elektrosvarkovyy zavod im. D. I. Ushakova [Plant named after D. I. Ushakov]. Elektrosvarkovyy zavod [Plant]. [Moscow] : Elektronika [Publisher]; Sov. nauchno-tekhnicheskaya promst. [Soviet Scientific-Technical Association]. 1977.

Ishim, A. [A. Engelhardt], Yu. G. Stepanovskii. Elektrosvarkovyi izmern. instrument. V. M. Khrustalev [Senior Engineer]. Institut elektrosvarkovoi tekhniki [Institute of Electric Welding Institute]. Izd. po O. Petru. [Ed. by O. Petrov]. Elektrosvarkovyy zavod im. D. I. Ushakova [Plant named after D. I. Ushakov]. Institut elektrosvarkovoi tekhniki [Institute of Electric Welding Institute]. Izd. po O. Petru. [Ed. by O. Petrov]. Elektrosvarkovyy zavod im. D. I. Ushakova [Plant named after D. I. Ushakov]. Elektrosvarkovyy zavod [Plant]. [Moscow] : Elektronika [Publisher]; Sov. nauchno-tekhnicheskaya promst. [Soviet Scientific-Technical Association]. 1977.

Electro-slag Welding of Medium-alloyed Steel Portfolios
Equipment and
Institute of Technical Sciences | A. N. Semenikov

[Engineers] First Cut, O. [Engineering] and L. J. [Mechanical] Head of Mining Institute [and] O. [Mining] and G. [Electrical] second and third S. O. [Ordnance Department] [and] O. [Mining] Plant [and] S. O. [Ordnance Department].

bonides (possibly as reaction products) at the flanges of large Holdings of Inhibit Austenitic Steel

Quenrich, G. [Candidate of Sciences] Institut elektronika iemni
Tenderer, S. D. [Candidate of Sciences] Institut elektronika iemni
Te. O. Petun], P. G. Strel's
Te. O. Petun (Technologist of a
Technological Institute) iemni

POLIX, [Head of Welding Office], and
Electro-salts Automatic Arc Welding of Medium and Large
Thicknesses of Titanium
Welding shop.

1. L. A. P. 2. S. C. 3. G. I. 4. D. M. 5. C. O. 6. C. H. 7. C. T. 8. C. R. 9. C. E. 10. C. B. 11. C. F. 12. C. M. 13. C. N. 14. C. P. 15. C. S. 16. C. V. 17. C. W. 18. C. X. 19. C. Y. 20. C. Z.

Alachua County, Fla., metallurgically treated iron [Te-Vorobieff, Metallurgical Plant iron [Te-Vorobieff], and H. A. Rybachuk, Chemically metallurgically treated hematite [Te-Vorobieff].

74
[Automatic Hard-Surfacing in
the Metallurgical Industry].

Lasterich, R. L. [Candidate of Technical Sciences], G. I. Mandel'berg [Candidate of Technical Sciences]; Institut elektrosvarki imeni D. S. Ljapidevskogo, Moscow; and Yu. D. Petrenko.

I. O. Botsos (Electric Building Institute) - Z. O. Kovalchynsky (Candidate of Technical Sciences; Ukrainian Scientific and Research Institute of Building Materials) - Chernobyl

Institute of Pipes], and S. A. OFFICE [Sales Agency]—
tribo-productory served (Chevlybinsk Pipe-rolling Plant). New Techniques
in Pipe Production. Variants of Lateral-tilter for Oil and Gas Pipes

Correspondence: G. V. [Engineer], Institut elektronarstvo, Izhevsk; U. F. Ruzova [Chief Electric Building Institute], Yaroslavl; P. A. Sazko [Chief Engineer], Saratovchino-montzavod trust (the latter two Assembling Trust); and

A. N. JUZEEV (Chief of the Department of Gas Pipeline Construction),
D. V. SOKHIN (Head of Administration of the Gas Industry of the USSR)]. Mech-
anized methods of building gas pipelines. 100

Борисов, Г. Я. [Candidate of Technical Sciences, Winner of Lenin Prize, Honored Inventor, Extraordinary member of the USSR Academy of Sciences, Professor] (Electric Welding)

Friends, we are very pleased to welcome Mr. O. Petrov [Chief Engineer], Institute Leningrad, Mr. V. V. Kuzminsky [Chief Engineer], Uralgazneftegazbyt (Ukrainian Main Administration for Petroleum Marketing), Mr. G. A. Slobodchikov [Chairman of the Committee on Construction and Assembly Administration]

¹¹⁸ See Part I, Chapter 1, note 10, above. The term "Ministerial Law" is used here to denote the law of the Ministry of Co-operation, which is the central executive authority of the USSR. It is also known as the People's Commissariat of Co-operation.

Petroleum Industry

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720004-3"

PHASE I BOOK EXPLOITATION

SOV/5078

Akademija nauk UkrSSR, Kijev. Institut elektrosvarkivanija
 Vnedelenye novykh sposobov svarki v promyshlennosti; shornik statey.
 Typ. 3. (Introduction of New Welding Methods in Industry; Col-
 lection of Articles. v. 3) Kijev, Gos. izd-vo tekhn. lit-ry
 UkrSSR, 1960. 207 p. 5,000 copies printed.

Sponsoring Agency: Ordens Trudovogo Krasnogo Znameni Institut
 elektrsovarkivaniya Akademii Nauk Ukrainskoj SSR. O. Patona Akademii Nauk
 Ukrainskoj SSR.

Ed.: M. Pisarenko; Tech. Ed.: S. Matusevich.

PURPOSE: This collection of articles is intended for personnel in the welding industry.

COVERAGE: The articles deal with the combined experiences of the Institut elektrsovarkivaniya Imeni Ye. O. Patona (Electric Welding Institute Imeni Ye. O. Paton) and several industrial enterprises in solving scientific and engineering problems in welding technology. Problems in the application of new methods of mechanized welding and electron-beam welding in industry are discussed. This is the third collection of articles published under the same title. The Foreword was written by B. Ye. Paton, Academician of the Academy of Sciences Ukrainian SSR and Lenin prize winner. There are no references.

TABLE OF CONTENTS:

Nayevskiy, G. V. [Candidate of Technical Sciences and Lenin Prize Winner, Electric Welding Institute Imeni Ye. O. Patona]	2
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Ivanov, I. I. [Head of Construction Department RPSR (Trust No. 7 of the Ministry for Construction, RFSR)], Introducing The Method of Rolling-Up Welded Structures in the Petroleum Industry	2
Zaruba, I. I. [Candidate of Technical Sciences], and A. G. Potap'yevskiy [Senior Engineer, Electric Welding Institute Imeni Ye. O. Paton], Experience in Introducing Automatic and Semiautomatic Carbon-Dioxide Shielded Welding	90
Madovar, S. I., A. G. Potap'yevskiy, F. A. Ratnik [Senior Engineers], S. V. Yunker [Head of Welding Laboratory, Stalingradsky Filial Giprometmashta (Stalingrad Branch of the State Design and Scientific Research Institute for Petroleum Machinery)], and S. A. Zandberg [Chief of Welding Bureau, Stalingradsky Machine-Building Plant Imeni Petrova, Stalingrad Machine-Building Plant Imeni Petrova]. Development and Introduction of New Techniques in the Automatic Shielded Flux-Welding of Steel With Chrome Stainless Cladding	99
Podgornitskiy, V. V. [Candidate of Technical Sciences], and V. V. Polozhina [Candidate of Technical Sciences], T. A. Shubotovskaya [Senior Engineer], L. I. Pruzin, T. G. Chirkova [Candidate of Technical Sciences, Electric Welding Institute Imeni Ye. O. Patona], V. P. Gordeev [Deputy Chief Mechanic, S. Ya. Shechter [Chief of Shop, Alchevsk Metallurgical Plant], Imeni K. Ye. Voroshilova (Alchevsk Metallurgical Plant), Imeni K. Ye. Voroshilov], M. A. Byzheiko [Former Chief Mechanic, Magnitogorsk Metallurgical Combine (Magnitogorsk Metallostroy Metallurgical Combine)], and N. A. Mal'cav [Chief of Welding Department, Arsenovskiy zavod "Tsvetmet" (The Arsenovskiy Plant, Arsenovskiy Non-ferrous Metallurgical Plant)]. Experience in the Introduction of Mechanized Surfacing in Metallurgy	115

SUBBATOVSKIY D.P.

PHASE I BOOK EXPLOITATION

SOV/5975

International Institute of Welding

XII kongress Mezhdunarodnogo instituta svarki, 29 iyunya - 5 iyulya 1959 v g.
Opatii (Twelfth Annual Assembly of the International Institute of Welding,
Opatija, June 29 - July 5, 1959) Moscow, Mashgiz, 1961. 359 p. 3000
copies printed.

Sponsoring Agency: Natsional'nyy komitet SSSR po svarke.

Ed. (Title page): G. A. Maslov, Docent; Translated from English, French,
and Serbo-Croatian by N. S. Aborenkova, K. N. Belyayev, E. P. Bogacheva,
L. A. Borisova, K. V. Zvegintseva, V. S. Minavichev, and M. M. Shelechnik;
Managing Ed. for Literature on the Hot-Working of Metals: S. Ya. Golovin,
Engineer.

PURPOSE: This collection of articles is intended for welding specialists and
the technical personnel of various production and repair shops.

Card 1/

Twelfth Annual Assembly (Cont.)

SOV/5875

COVERAGE: The collection contains abridged reports presented and discussed at the Twelfth Annual Assembly of the International Institute of Welding. Reports deal with problems of welding and related processes used in repair work, repair techniques, and the problems arising in connection with the nature of the base and filler materials. Examples of repairing various parts are given, and the organization of repair operations in workshops and under field conditions is discussed. Economic aspects of welding and related processes as used in repair work are analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS: [Only Soviet and Soviet-bloc reports are given here]

Foreword 5

PART I. THE STUDY OF REPAIR-WORK TECHNIQUES
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Myuntsner, L. (Czechoslovakia). Welding of Broken Crankshafts 36

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SOV/3975

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Submerged-Arc Surfacing

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Snegon, K. (Poland). Restoration of Rolling-Mill Rolls, Crane
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